



State of Utah

Department of  
Environmental QualityDianne R. Nielson, Ph.D.  
Executive DirectorDIVISION OF ENVIRONMENTAL  
RESPONSE AND REMEDIATIONBrad T Johnson  
DirectorJON M. HANSMAN, JR.  
GovernorGARY HERBERT  
Lieutenant Governor✓ entered into  
CERCLIS  
01/31/2007

FILE COPY

ERRC-038-05

February 17, 2005

SDMS Document ID



1064626

Luke Chavez, Site Assessment Manager (8EPR-SA)  
U.S. Environmental Protection Agency, Region VIII  
Assessment, Emergency Response, Prevention,  
and Preparedness Program  
999 18<sup>th</sup> Street, Suite 500  
Denver, Colorado 80202-2405

Dear Luke:

*Plume*  
✓ Enclosed is a discovery form and map for a site located in the vicinity of 5600 South 900 East, Murray, Utah. The site consists of commercial business near the intersection and beyond that, a residential area. Chlorinated solvents were detected in the groundwater during the removal of underground storage tanks and the subsequent subsurface investigation at a 7-Eleven facility. The tank removal activities were completed in 2004 under the direction of our Division's Underground Storage Tank (UST) Branch. Specifically, the UST investigation detected tetrachloroethene (PCE) ranging from 2.8 to 500 parts per billion (ppb), trichloroethylene (TCE) ranging from 4.9 to 54 ppb, and cis-1,2-dichloroethylene (cis-1,2-DCE) ranging from 3.3 to 60 ppb. The Superfund Chemical Data Matrix (SCDM) drinking water maximum contaminant level (MCL) is 5 ppb for PCE and TCE, and 70 ppb for cis-1,2-DCE.

Two previous UST investigations within the area determined the groundwater flow is to the west-northwest. Available analytical data from the 17 temporary monitoring wells installed during the investigation at the 7-Eleven facility indicates the source of the solvent plume is from the southeast. Across the street and immediately southeast of the 7-Eleven location a dry cleaning facility has operated since at least 1980.

The contaminants of concern are not naturally found in the environment. TCE and cis-1,2-DCE are breakdown products of PCE. Among others, the dry cleaning industry and machine shops use PCE as a degreaser and cleaning solvent. Currently there are a few auto repair and service centers within the site and one dry cleaner. A second dry cleaner is currently operating one city block down gradient of the site.

Page 2

The primary target of concern is a municipal well that is located within 500 feet and slightly up gradient of the potential source of the contamination. The municipal well is used seasonally as part of a combined water system serving a population of approximately 36,000 persons. The contaminants of concern were detected in the groundwater collected at a depth of some 92 feet below the ground surface, which is likely a perched aquifer in reference to the municipal well log. The first screened zone within the municipal is 415 feet below the ground surface and the draw down within the well is over 200 feet. The municipal well was re-drilled in 2004 and it will likely be put into operation later this year during the peak water use period (summer).

We have designated this site as the **5600 South 900 East Plume** in reference to the general location of the impacted media. The presence of chlorinated solvents in the groundwater at this location warrants additional investigation to assess potential threats to human health and the environment. We consequently request inclusion of this site on the CERCLIS database. Please notify us when the site is placed on the list.

Thank you for your attention to this matter. If you have any questions or require additional information, please contact me at (801) 536-4235

Sincerely,



Ann M. Tillia, Environmental Scientist  
Site Assessment Section, CERCLA Branch  
Division of Environmental Response and Remediation

AMT/lfh

Enclosure

cc: Royal DeLegge, E.H.S. Director Salt Lake Valley Health Department  
Kevin Brown, Director, UDEQ Division of Water Quality.

## DATA ENTRY FORM FOR DISCOVERY OF SITE (DS)

SITE NAME: 5600 South 900 East Plume EPA ID# \_\_\_\_\_  
 ALIAS NAME(S): 1 \_\_\_\_\_ 2. \_\_\_\_\_  
 SITE ADDRESS: approximately 5600 South 900 East  
 CITY: Murray STATE: Utah ZIP CODE: 84121  
 COUNTY: Salt Lake CONG DISTRICT #: 2  
 REGIONAL CONTACT: Ann Tillia PHONE # (801) 536-4235  
 (Site Assessment Manager)  
 TOWNSHIP 2S LATITUDE 40° 38' 58.47"  
 RANGE 1E (DEG) (MIN) (SEC)  
 SECTION 17 LONGITUDE 111° 51' 57.26"  
 (DEG) (MIN) (SEC)

## LAT/LONG SOURCE: (check one)

\_\_\_ Contractor \_\_\_ Dun & Bradstreet \_\_\_ EPA Headquarters \_\_\_ EPA Region 8 \_\_\_ EPIC ☒ Geograph \_\_\_ Other  
 \_\_\_ Other Federal Agency \_\_\_ Private \_\_\_ Regulated Entity \_\_\_ SNAP \_\_\_ State \_\_\_ Tribe \_\_\_ Unknown \_\_\_ Blank

SITE DISCOVERY DATE: 02-09-05 FEDERAL FACILITY DOCKET #: \_\_\_\_\_

IS SITE PART OF EXISTING NPL? \_\_\_ YES \_\_\_ NO IF YES, EPA ID# \_\_\_\_\_

## OWNER OPERATOR TYPE:

\_\_\_ BANK/LOAN COMPANY  
 \_\_\_ COUNTY OWNED  
 \_\_\_ DISTRICT OWNED  
 \_\_\_ FEDERALLY OWNED  
 \_\_\_ FORMERLY FEDERALLY OWNED  
 \_\_\_ OR OPERATED  
 \_\_\_ GOVERNMENT OWNED/CONTRACTOR  
 OPERATED  
 \_\_\_ INDIAN LANDS  
 \_\_\_ MIXED OWNERSHIP  
☒ MUNICIPALITY  
☒ PRIVATE  
 \_\_\_ PRIVATELY OWNED/GOVERNMENT  
 \_\_\_ PROPERTY DEFAULTED BACK TO  
 OPERATED  
 \_\_\_ GOVERNMENT  
 \_\_\_ STATE OWNED  
 \_\_\_ TRUSTEE, FEDERAL  
 \_\_\_ TRUSTEE, STATE  
 \_\_\_ UNKNOWN  
 \_\_\_ OTHER  
 \_\_\_ (BLANK)

## SITE TYPE:

\_\_\_ DISPOSAL  
 \_\_\_ MIDNIGHT DUMP  
 \_\_\_ OTHER  
☒ PRODUCTION FACILITY(ACTIVE)  
 \_\_\_ PRODUCTION FACILITY(INACTIVE)  
 \_\_\_ STORAGE  
 \_\_\_ TRANSPORTATION RELATED  
 \_\_\_ TREATMENT  
 \_\_\_ TREATMENT/ACTIVE  
 \_\_\_ (BLANK)

## FEDERAL FACILITY INDICATOR:

\_\_\_ FEDERAL FACILITY  
☒ NOT A FEDERAL FACILITY  
 \_\_\_ STATUS UNDETERMINED  
 \_\_\_ (BLANK)

## OWNER OPERATOR TYPE

\_\_\_ BANK/LOAN COMPANY  
 \_\_\_ COUNTY OWNED  
 \_\_\_ DISTRICT OWNED  
 \_\_\_ FEDERALLY OWNED  
 \_\_\_ FORMERLY FEDERALLY OWNED  
 \_\_\_ OR OPERATED  
 \_\_\_ GOVERNMENT OWNED/CONTRACTOR  
 OPERATED  
 \_\_\_ INDIAN LANDS  
 \_\_\_ MIXED OWNERSHIP  
 \_\_\_ MUNICIPALITY  
☒ PRIVATE  
 \_\_\_ PRIVATELY OWNED/GOVERNMENT  
 \_\_\_ PROPERTY DEFAULTED BACK TO  
 OPERATED  
 \_\_\_ GOVERNMENT  
 \_\_\_ STATE OWNED  
 \_\_\_ TRUSTEE, FEDERAL  
 \_\_\_ TRUSTEE, STATE  
 \_\_\_ UNKNOWN  
 \_\_\_ OTHER  
 \_\_\_ (BLANK)

## OPERATIONAL STATUS:

☒ ACTIVE  
 \_\_\_ INACTIVE  
 \_\_\_ UNKNOWN  
 \_\_\_ BLANK

## SITE CATEGORY:

\_\_\_ ABANDONED  
 \_\_\_ DIOXIN  
☒ GROUND WATER  
 \_\_\_ BIOLOGICAL THREAT  
 \_\_\_ OTHER  
 \_\_\_ MINES/TAILINGS  
 \_\_\_ INDUSTRIAL WASTE TREATMENT  
 \_\_\_ WATERWAYS/CREEKS/RIVERS  
 \_\_\_ CHEMICAL PLANT  
 \_\_\_ ECOLOGICAL DAMAGE  
 \_\_\_ HOUSING AREA/FARM  
 \_\_\_ LANDFILL  
 \_\_\_ PURE LAGOONS  
 \_\_\_ WELLS  
 \_\_\_ MANUFACTURING PLANT  
 \_\_\_ CITY CONTAMINATION  
 \_\_\_ FEDERAL FACILITY  
 \_\_\_ INORGANIC WASTE  
 \_\_\_ MILITARY RELATED  
 \_\_\_ RADIOACTIVE SITE  
 \_\_\_ FIRE EXPLOSION

## DISCOVERY LEAD:

☒ (F)-EPA FUND-FINANCED  
 \_\_\_ (EP)-EPA IN-HOUSE  
 \_\_\_ (S)-STATE, FUND-FINANCED

## INCIDENT TYPE:

☒ NON-OIL SPILL  
 \_\_\_ OIL SPILL  
 \_\_\_ UNKNOWN  
 \_\_\_ (BLANK)

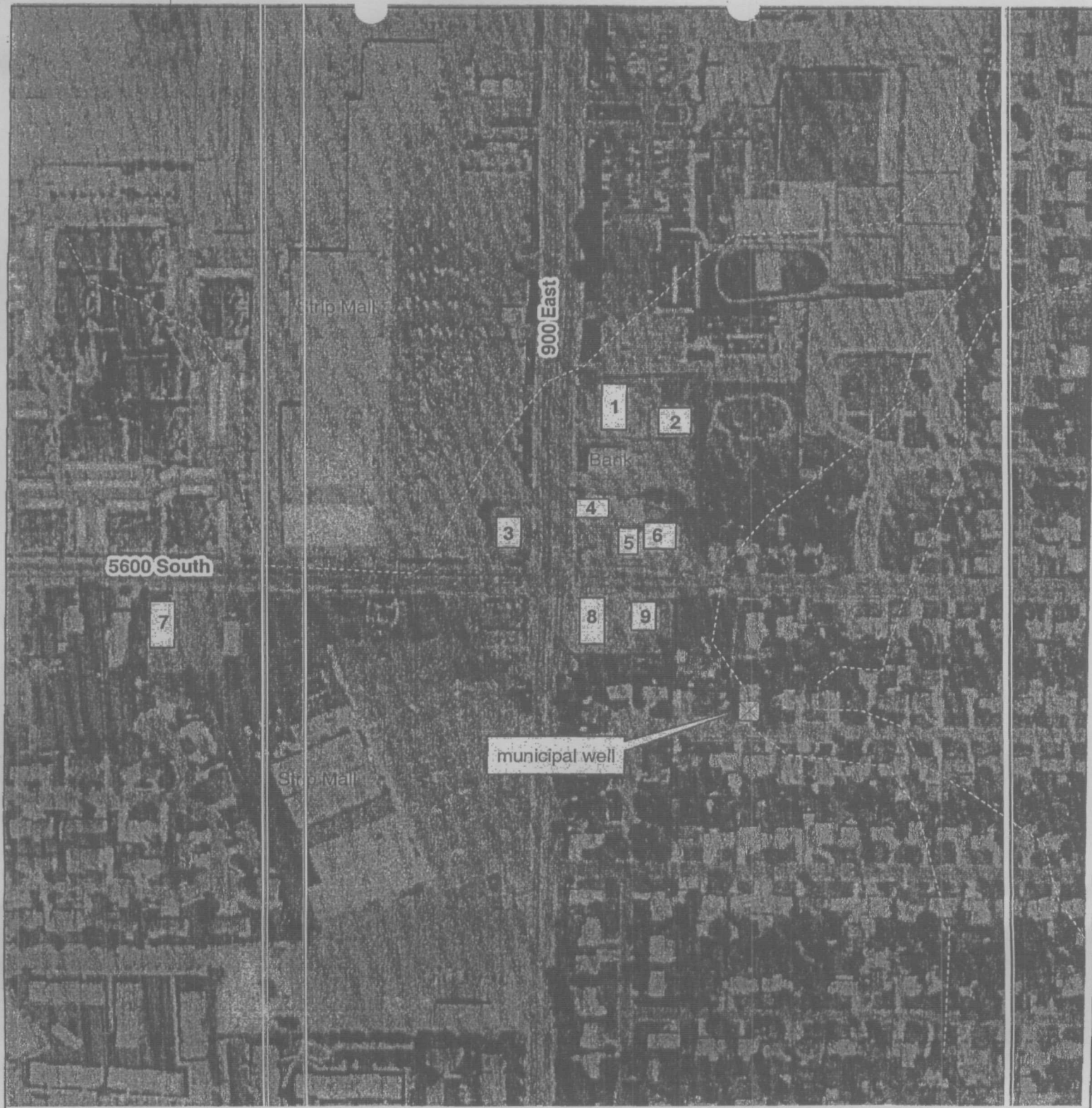
## NOTES:



COMMENT: In 2003 and 2004 chlorinated solvents were detected in several groundwater monitoring wells that were installed on and near a 7-Eleven fuel station site as part of an Underground Storage Tank (UST) removal investigation that was over-sighted by the UDEQ/DERR UST Branch. The investigation at the 7-Eleven facility analyzed and detected PCE ranging from 2.8 to 500 parts per billion (ppb), TCE ranging from 4.9 to 54 ppb, and DCE ranging from 3.3 to 60 ppb. The investigations at the 7-Eleven facility and the historic Big-O Tire facility (another UST site located across the street and west of the 7-Eleven facility) both determined the groundwater gradient is to the west-northwest. The topography in the area slopes gently to the west-northwest. Based on the concentration of chlorinated solvents detected within the 11 groundwater wells installed during the 7-Eleven investigation, the plume is migrating from a source located south-southeast of the 7-Eleven facility. South of the 7-Eleven is a Jiffy Lube facility. Southeast of the 7-Eleven facility is a dry cleaning facility located at 926 East 5600 South and up gradient of that is a residential area. A dry cleaner has operated at 926 East (and 925 East) since at least 1980. Historically, another dry cleaner was located immediately north of the 7-Eleven and it operated between at least 1975 and 1985. Currently another dry cleaner is operating one block down gradient of the site. A municipal drinking water well is located within 500 feet and (slightly) up gradient of the potential source at 926 East 5600 South. The nearby municipal well is used seasonally as part of a combined system that serves about 36,000 persons. The drawdown on the municipal well is some 240 feet. The depth to known contaminated groundwater is 92 feet below the ground surface (the depth of the temporary monitoring wells installed during the 7-Eleven investigation).

PREPARED BY: Ann Tillia, UDEQ/DERR DATE: 02 / 14 / 2005




IMC: \_\_\_\_\_ DATE: \_\_\_\_ / \_\_\_\_ / \_\_\_\_ ISSI: \_\_\_\_\_ DATE: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

QA/QC: \_\_\_\_\_ DATE: \_\_\_\_ / \_\_\_\_ / \_\_\_\_






**Legend**

 Buildings	 Municipal Well, approx. loc.
1. Quick Lube	 Topo contours, 10 ft. intervals.
2. Jim's Auto Repair	
3. Chevron fuel station	Air Photo: UDNR, 1993.
4. Pizza Hut	
5. 7-11 market (historic fuel station)	
6. Fisher's Car Care (auto service)	
7. Village (Dry Cleaners)	
8. Jiffy Lube	
9. Red Hanger (Dry Cleaners)	

Department of Environmental Quality  
Division of Environmental Response and Remediation



**Figure 1**  
Site Discovery Map  
General Site Area

5600 South 900 East Plume  
Murray, Salt Lake County, Utah

Date: 02-02-05 By: AMT

